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BCL10

Reactivity: Human Mouse Rat

Tested applications:WB IHC IF

Recommended Dilution:WB 1:500 - 1:2000 IHC 1:50 - 1:200 IF 1:50 - 1:200

Calculated MW:26kDa

Observed MW: Refer to Figures

Immunogen:

Recombinant protein of human BCL10

Storage Buffer:

Store at -20. Avoid freeze / thaw cycles. Buffer: PBS with 0.02% sodium azide, 50% glycerol, pH7.3.

Concentration:

b

Synonym:

BCL10;CARMEN;CIPER;CLAP;c-E10;mE10 ;

Catalog #:A1106

Antibody Type:

Polyclonal Antibody

Species: Rabbit

Gene ID:8915

Isotype: IgG

Swiss Prot:O95999

Purity: Affinity purification

For research use only.

Background:

Bcl10/CIPER/CLAP/mE10 is a widely expressed CARD (caspase recruitment domain) containing protein shown to induce apoptosis and activate NF-B (1-5). The CARD domain mediates self-oligomerization, interactions with other CARD proteins and is necessary for NF-B activation, although the precise mechanism which Bcl10 regulates these processes is not fully understood. The discovery of Bcl10 came from observations of the chromosomal translocation t(1;14)(p22;q32) from B cell lymphomas of the mucosa-associated lymphoid tissue (MALT) (1,5). This translocation results in deregulated expression of a truncated form of Bcl10 which lacks apoptotic activity and enhances transformation. Studies from Bcl10 deficient mice demonstrate that Bcl10 is essential for the activation of NF-B by T- and B-cell receptors (6). One third of Bcl10 deficient mice developed lethal exencephaly. Surviving mice were unaffected by various apoptotic stimuli, but were severely immunodeficient and defective in antigen receptor-induced NF-B activiation. PKC or T-cell receptor signaling results in a downregulation of Bcl10 protein levels, attenuating both NF-B activation and cellular proliferation and also provides a negative feedback regulation of the NF-B signaling to T cell signaling (7).

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